UNITEC

ELECTRIC • PNEUMATIC • HYDRAULIC

Hole Cutting
Twist Drilling
Tapping
Reaming
Countersinking

Magnetic Drills
Annular Cutters
Hand-held Drills
Drive Units
Nut Runners
Hammer Drills
Beveling Machines

UNITEC Portable Drills & Accessories

Fast, accurate hole cutting on the job site or in the shop!

CS Unitec's portable magnetic drills are ideal for drilling structural steel and virtually any metal. We offer the most compact and powerful series of portable magnetic drills for holes up to 5" diameter. All CS Unitec drills are heavy-duty for use in construction and industry. Our complete product line includes electric, pneumatic and hydraulic. They are available for prompt delivery.

CS Unitec is the industry leader in:

- *Power-to-weight ratios*
- *Strongest clamping force high-density (HD) dual-coil magnets*
- *Magnetic drills for tapping*
- *Annular Cutters: TiAlN, HSS, cobalt steel, & carbide-tipped*

We offer:

- *Variable-speed, multiple-geared models*
- *Electric, pneumatic and hydraulic power*
- *Reversible motors for tapping and machining*
- *Swivel base stand for hard-to-reach areas*

Special Features

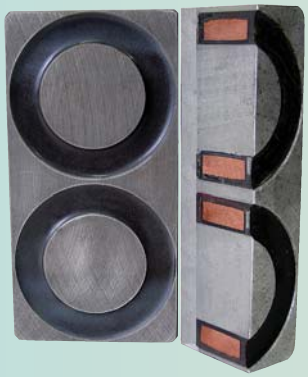
The magnetic force of your magnet depends on a number of factors:

- *Thickness of material being drilled*
- *Coatings or paint layers on material*
- *Chips, dirt or grease between the magnet and the material*

EXTRA SAFETY

SENSORTEC System

The SENSORTEC System measures whether the magnet has sufficient adhesive force on the material. An LED indicator on the switch panel warns you of insufficient magnetic force (Red Light) or if the correct force is present (Green Light).



High-density (HD) dual-coil magnets are wound in two circles to increase the surface area and density of the magnetic field. The higher density increases the magnetic force by over 100% as compared to a single rectangular coil commonly used in electromagnetic drills.

TEMPTEC Electromagnets ensure that the magnet does not overheat. When the magnet is switched on for long periods of time, the coils could overheat or even burn out. The TEMPTEC feature ensures that the power of the magnets is reduced when the drill motor is not active. Therefore, it won't build up heat.

LONGER SERVICE LIFE

TEMPTEC Magnet

Keyless arbor allows easy, no-tools changeover of Annular Cutters. No more searching for allen keys or set screws – just twist and lock. Included on ECO-50, ECO-80 and ECO-100 series drills.

ARMOR-PLATED™ TiAlN Cutters are ideal for all drilling applications. A high surface hardness and greater lubricity allow drilling at high operating temperatures with more power and speed.

UNITEC Product Index

Special Features

Many drills are offered with forward and reverse capabilities, allowing drilling and tapping with one unit.

High-torque motors are double insulated to increase operator safety.

Variable-speed dial on some models lets the operator adjust speed to match cutter diameter to correct RPM. This provides increased tool life and reduces cutter breakage.

Optional Power Assist provides delayed torque transfer, decreasing the load on both the cutter and machine. This allows the machine to maintain maximum RPM under full load. See page 21 for more information.

ATEX Approved

Some Pneumatic tools are ATEX Approved for use in hazardous and potentially explosive atmospheres.

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Warranty

Products of CS Unitec, Inc. are warranted to be free from defects in material and workmanship for one year from date of purchase. This warranty does not apply to normal wear or products which have been abused, misused, modified or repaired by someone other than CS Unitec, Inc. or its Authorized Service Representatives.

If a product proves defective in material or workmanship within one year after purchase, return it to CS Unitec, Inc. or an Authorized Service Center, transportation prepaid. CS Unitec, Inc. will, at its option, repair or replace defective products free of charge.

CS Unitec, Inc.'s sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective product. There are no other warranties expressed or implied and CS Unitec, Inc. shall not be liable for incidental, consequential or special damages, or expenses excepting only the cost or expense of repair or replacement as described above.

Cutter capacity 1 1/8" dia.

ECO-30/3P

EUROBOOR®

Ultra-compact and lightweight with power assist

- Compact height of 12 1/4"
- Lightweight at 22 lbs.
- Patented power-assist mechanism reduces feed pressure to help prevent motor burn-out and cutter breakage
- Strong 7.5 Amp double-insulated motor
- Powerful high-density dual-coil magnet has superior holding strength of 3300 lbs.
- Drills up to 1 1/8" diameter holes with Annular Cutters
- One-year warranty

Model ECO-30/3P

Patented power-assist mechanism reduces load on motor and cutter. Standard with ECO-30/3P. See page 21.

TEMPTEC Magnet

See page 2

Model ECO-30/3P has an integrated auto-lubrication system.

Standard equipment includes auto lubrication, carrying case, chip guard, safety chain, carabin hook, gloves, safety glasses, ear protection and allen keys.

Cutter capacity up to 1 1/8" dia., stroke: 2 3/4"

See pages 18-24 for Annular Cutters and Accessories.

Model ECO-30/3P	
Motor Power	7.5 Amp / 110 Volt*
Weight	22 lbs.
Hole Capacity	1 1/8"
Speed	450 RPM
Magnet Base Size	6 3/8" L x 3 1/4" W
Dimensions	12 1/4" H x 9 3/8" L x 6 3/8" W
Magnetic Force (1" Plate)	3300 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

** 220 Volt / 50 Hz also available*

MDM-40

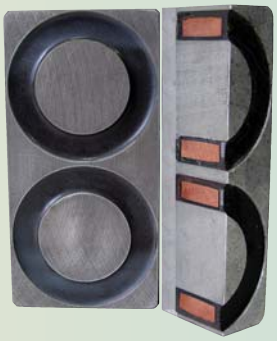
EUROBOOR®

Heavy-duty compact hole drilling machine

Cutter capacity 1 1/2" dia.

Model MDM-40

- Powerful hole cutting machine for steel fabricators, bridge contractors and plant maintenance
- Compact height of 13" allows drilling in tight spaces
- Lightweight and portable at only 24 lbs. for use on the job site or in the shop
- Strong 9.25 Amp double-insulated motor
- One-piece motor mount and arbor support for added strength and stability
- High-density dual-coil magnet has holding strength of 2640 lbs.
- Drills up to 1 1/2" diameter holes with Annular Cutters
- One-year warranty



All CS Unitec high-density dual-coil magnets are ground, not cast, and are wound into two circles to increase the surface area and density of the magnetic field.

Standard equipment includes auto lubrication, carrying case, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.

Model MDM-40	
Motor Power	9.25 Amp / 110 Volt
Weight	24 lbs.
Hole Capacity	1 1/2" dia.
No Load Speed	440 RPM
Magnet Base Size	6 1/2" L x 3 1/4" W
Dimensions	13" H x 9 1/2" L x 7" W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

** 220 Volt / 50 Hz also available*

Cutter capacity up to 1 1/2" dia. stroke: 4 3/8"

See pages 18-24 for Annular Cutters and Accessories.

Cutter capacity 1 1/4" dia.

ECO-32 and ECO-32AK

EUROBOOR®

Best power-to-weight performance in the industry

Model ECO-32

- Lightweight and portable at only 24 lbs.
- Compact height of 14 1/4" for drilling in tight spaces
- Strong 8.2 Amp double-insulated motor
- High-density dual-coil magnet has holding strength of 3080 lbs.
- Drills up to 1 1/4" diameter holes with Annular Cutters; up to 1/2" with twist drills
- Optional Power Assist to maintain maximum RPM under full load *(Part No. 020.0330)*

See page 21 for more information.

TEMPTEC Magnet

SENSORTEC System

See page 2

With a 1/2" chuck (Part No. IBK-17), these models easily convert to standard drill presses with a 7 1/2" stroke for conventional twist drills.

Model ECO-32AK has an automatic cooling/lubrication system built into the arbor.

Standard equipment includes carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty

Cutter capacity up to 1 1/4" dia., stroke: 5 3/4"

Twist drill capacity up to 1/2" dia., stroke: 7 1/2"

See pages 18-24 for Annular Cutters and Accessories.

Model ECO-32 and ECO-32AK

Motor Power	8.2 Amp / 110 Volt*
Weight	24 lbs.
Hole Capacity	1 1/4" dia.
Twist Drill Capacity	1/2" dia.
Speed	450 RPM
Magnet Base Size	6 5/16" L x 3 1/4" W
Dimensions	14 1/4" H x 9 1/2" L x 4 3/8" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-32
Automatic Lubrication	Order Model ECO-32AK

** 220 Volt / 50 Hz also available ** Power Assist Part No. 020.0330*

ECO-32T and ECO-32TAK

EUROBOOR®

Cutter capacity 1 1/4" dia.

Reversible motor for drilling and tapping applications

Model ECO-32T

- Strong 9.5 Amp double-insulated reversible motor
- Stepless variable-speed control, 100-450 RPM
- Compact height of 14 1/4" allows drilling in tight spaces
- Lightweight and portable at only 24 lbs.
- Best power-to-weight ratio in the industry
- HD dual-coil magnet has holding strength of 3080 lbs.
- Drills up to 1 1/4" diameter holes with Annular Cutters and taps up to 3/4"
- Optional Power Assist to maintain maximum RPM under full load *(Part No. 020.0330)*

See page 21 for more information.

With a 1/2" chuck (Part No. IBK-17), these models easily convert to standard drill presses with a 7 1/2" stroke for conventional twist drills.

Standard equipment includes carrying case, tap collet set, safety chain, carabin hook and allen keys.

Tap collet set included

Model ECO-32TAK has an automatic cooling/ lubrication system built into the arbor.

Includes one-year warranty

Cutter capacity up to 1 1/4" dia., stroke: 5 3/4"

Twist drill capacity up to 1/2" dia., stroke: 7 1/2"

Tapping capacity up to 3/4" dia.

See pages 18-24 for Annular Cutters and Accessories.

Model ECO-32T and ECO-32TAK	
Motor Power	9.5 Amp / 110 Volt*
Weight	24 lbs.
Hole Capacity	1 1/4" dia.
Twist Drill Capacity	1/2" dia.
Tapping Capacity	3/16"-3/4" dia.
Speeds	100-450 RPM
Magnet Base Size	6 5/16" L x 3 1/4" W
Dimensions	14 1/4" H x 9 1/2" L x 4 3/8" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-32T
Automatic Lubrication	Order Model ECO-32TAK

** 220 Volt / 50 Hz also available ** Power Assist Part No. 020.0330*

Cutter capacity 2" dia.

ECO-50 and ECO-50AK

EUROBOOR®

Lightweight, two-speed high-performance drill

- Drills up to 2" diameter holes with Annular Cutters
- Lightweight and portable at 29 lbs.
- Strong 10.5 Amp motor and two-speed gearbox
- HD dual-coil magnet has holding strength of 3750 lbs.
- Easy "twist and lock" keyless arbor for cutters
- Compact height of 16 1/2" allows drilling in small spaces
- With a 3/4" chuck (Part No. IBK-22), these models easily convert to standard drill presses with a 5" stroke for up to 7/8" dia. twist drills
- Optional Power Assist to maintain maximum RPM under full load *(Part No. 020.0330)*

See page 21 for more information.

TEMPTEC Magnet

SENSORTEC System

See page 2

Model ECO-50AK has an automatic cooling/lubrication system built into the arbor.

Model ECO-50 with keyless chuck cutter holder

Standard equipment includes Auto Chuck cutter holder, carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty

With a 3/4" chuck (Part No. IBK-22) or MT2, these models easily convert to standard drill presses with a 5" stroke for conventional twist drills.

Cutter capacity up to 2" dia., stroke: 6"

Twist drill capacity up to 7/8" dia., stroke: 5"

See pages 18-24 for Annular Cutters and Accessories.

Model ECO-50 and ECO-50AK	
Motor Power	10.5 Amp / 110 Volt*
Weight	29 lbs.
Hole Capacity	2" dia.
Twist Drill Capacity	7/8" dia.
Speeds	Gear 1: 250, Gear 2: 450 RPM
Magnet Base Size	6 1/2" L x 3 1/2" W
Dimensions	16 1/2" H x 9" L x 6 3/8" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-50
Automatic Lubrication	Order Model ECO-50AK

** 220 Volt / 50 Hz also available ** Power Assist Part No. 020.0330*

ECO-50T and ECO-50TAK

EUROBOOR®

Cutter capacity 2" dia.

Reversible motor for drilling and tapping applications

- Variable-speed control in two gears
- Ideal for drilling, tapping and countersinking
- Compact height of 16 1/2"
- Lightweight and portable at 29 lbs.
- Strong 10.5 Amp reversible motor
- HD dual-coil magnet has holding strength of 3750 lbs.
- Easy "twist and lock" keyless arbor
- Drills up to 2" dia. holes with Annular Cutters
- Optional Power Assist to maintain maximum RPM under full load *(Part No. 020.0330)*

See page 21 for more information.

Model ECO-50TAK has an automatic cooling/lubrication system built into the arbor.

TEMPTEC Magnet

SENSORTEC System

See page 2

With a 3/4" chuck (Part No. IBK-22) or MT2, these models easily convert to standard drill presses with a 5" stroke for conventional twist drills.

Optional quick-change tapping chuck with MT2 connection (Model GSW.222) has flexible collet to fit taps 5/16" to 5/8".

Model ECO-50T with keyless chuck cutter holder

Tap collet set included

Standard equipment includes carrying case, tap collet set, safety chain, carabin hook, Auto Chuck cutter holder and allen keys.

Includes one-year warranty

Cutter capacity up to 2" dia.

Twist drill capacity up to 7/8" dia.

Tapping capacity up to 15/16" dia.

See pages 18-24 for Annular Cutters and Accessories.

Model ECO-50T and ECO-50TAK	
Motor Power	10.5 Amp / 110 Volt*
Weight	29 lbs.
Hole Capacity	2" dia.
Twist Drill Capacity	7/8" dia.
Tapping Capacity	3/16"-15/16" dia.
Speeds	100-250 and 180-580 RPM
Magnet Base Size	7" L x 3 1/2" W
Dimensions	16 1/2" H x 9" L x 6 3/8" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-50T
Automatic Lubrication	Order Model ECO-50TAK

** 220 Volt / 50 Hz also available ** Power Assist Part No. 020.0330*

Cutter capacity 3 3/16" dia.

ECO-80AK

EUROBOOR®

Powerful high-torque motor with multiple speeds

- Robust, high-torque 15 Amp motor with four-speed gearbox (100 / 175 / 245 / 385 RPM)
- Multiple speeds match cutter diameter to correct RPM to provide increased tool life and reduced cutter breakage
- High-density dual-coil magnet has holding strength of 7040 lbs.
- Drills up to 3 3/16" diameter holes with annular cutters and 1 1/4" with twist drills
- Keyless arbor for annular cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Automatic lubrication system
- MT3 output spindle has 11 1/4" max. stroke
- Optional Power Assist to maintain maximum RPM under full load *(Part No. 020.0336)*

See page 21 for more information.

Model ECO-80AK with keyless chuck cutter holder

TEMPTEC Magnet

SENSORTEC System

See page 2

With a 3/4" chuck (Part No. IBK-21) or MT3, this model easily converts to a standard drill press with a stroke of 6 1/2".

Standard equipment includes Auto Chuck cutter holder, carrying case, safety chain and carabin hook.

Includes one-year warranty

Cutter capacity up to 3 3/16" dia., stroke: 10"

Twist drill capacity up to 1 1/4" dia., stroke: 6 1/2" w/chuck

See pages 18-24 for Annular Cutters and Accessories.

Model ECO-80AK	
Motor Power	15 Amp / 110 Volt*
Weight	57 lbs.
Hole Capacity	3 3/16" dia.
Twist Drill Capacity	1 1/4" dia.
Speeds	100 / 175 / 245 / 385 RPM (4 gears)
Magnet Base Size	9" L x 4 3/8" W
Dimensions	19 1/2" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	7040 lbs.
Arbor Bore	3/4" **
Automatic Lubrication	Included

** 220 Volt / 50 Hz also available ** 1 1/4" also available*
**** Power Assist Part No. 020.0336*

ECO-100/3AK and ECO-100/3DAK

EUROBOOR®

Cutter capacity 4" dia.

Powerful reversible motor for drilling and tapping

Model ECO-100/3AK with keyless chuck cutter holder

- Variable-speed, high-torque 16 Amp motor with 2 gears (40-140 and 120-480 RPM)
- Multiple speeds match cutter dia. to correct RPM to increase life
- Robust machine with 10" stroke is ideal for drilling structural steel
- High-density dual-coil magnet has holding strength of 6600 lbs.
- Drills up to 4" diameter holes with Annular Cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Variable torque control regulates power output
- Automatic lubrication system
- Optional arbor available for cutters with 1 1/4" Weldon shanks
- MT3 output spindle; 11 1/4" max. stroke
- Optional Power Assist to maintain maximum RPM under full load *(Part No. 020.0336)*

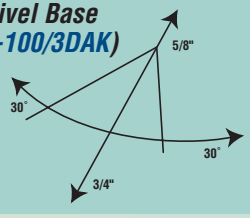
See page 21 for more information.

Twist Drilling

Tapping

Reaming

Optional Swivel Base (Model ECO-100/3DAK) provides movement through 30° and 3/4".



TEMPTEC Magnet

SENSORTEC System

See page 2

Standard equipment includes Auto Chuck cutter holder, carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty

Cutter capacity up to 4" dia. stroke: 10"

Twist drill capacity up to 1 1/4" dia. stroke: 6 1/2" w/chuck

Tapping capacity up to 1 1/8" dia.

See pages 18-24 for Annular Cutters and Accessories.

Model ECO-100/3AK and ECO-100/3DAK	
Motor Power	16 Amp / 110 Volt*
Weight	57 lbs.
Hole Capacity	4" dia.
Twist Drill Capacity	1 1/4" dia.
Tapping Capacity	3/16"-1 1/8" dia.
Speeds	40-140 and 120-480 RPM
Magnet Base Size	9" L x 4" W
Dimensions	19 1/2" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	6600 lbs.
Arbor Bore	3/4" **
Automatic Lubrication	Included
Swivel Base	Order Model ECO-100/3DAK

** 220 Volt / 50 Hz also available ** 1 1/4" also available*
**** Power Assist Part No. 020.0336*

Cutter capacity 5" dia.

ECO-130AK

EUROBOOR®

Triple arbor bearing guidance for drilling up to 5" dia.

- Strongest magnetic drill press in its class
- Variable-speed and two gears (40-140 and 120-480 RPM)
- Multiple speeds match cutter diameter to correct RPM
- 3 1/3" stroke with special triple arbor bearing guide
- Powerful, high-torque 16 Amp motor with reverse
- Variable torque control regulates power output
- HD dual-coil magnet has holding strength of 10,560 lbs.
- Drills up to 5" diameter holes with TCT Annular Cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Automatic lubrication system
- Optional Power Assist to maintain maximum RPM under full load *(Part No. 020.0336)*

See page 21 for more information.

Model ECO-130AK

Automatic cooling/ lubrication system

Triple arbor bearing guide ensures stability for large-diameter hole drilling.

TEMPTEC Magnet SENSORTEC System

See page 2

Ideal for use with large-diameter Tungsten Carbide-tipped (TCT) cutters (see page 20).

Standard equipment includes carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty

Optional 3/4" arbor adapter, P/N IBK-32/19

Cutter capacity up to 5" dia.

See pages 18-24 for Annular Cutters and Accessories.

Model ECO-130AK	
Motor Power	16 Amp / 110 Volt*
Weight	79 lbs.
Hole Capacity	5" dia.
Speeds	40-140 and 120-480 RPM
Magnet Base Size	9 1/2" L x 4 3/4" W
Dimensions	26 1/4" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	10,560 lbs.
Arbor Bore	1 1/4"**
Automatic Lubrication	Included

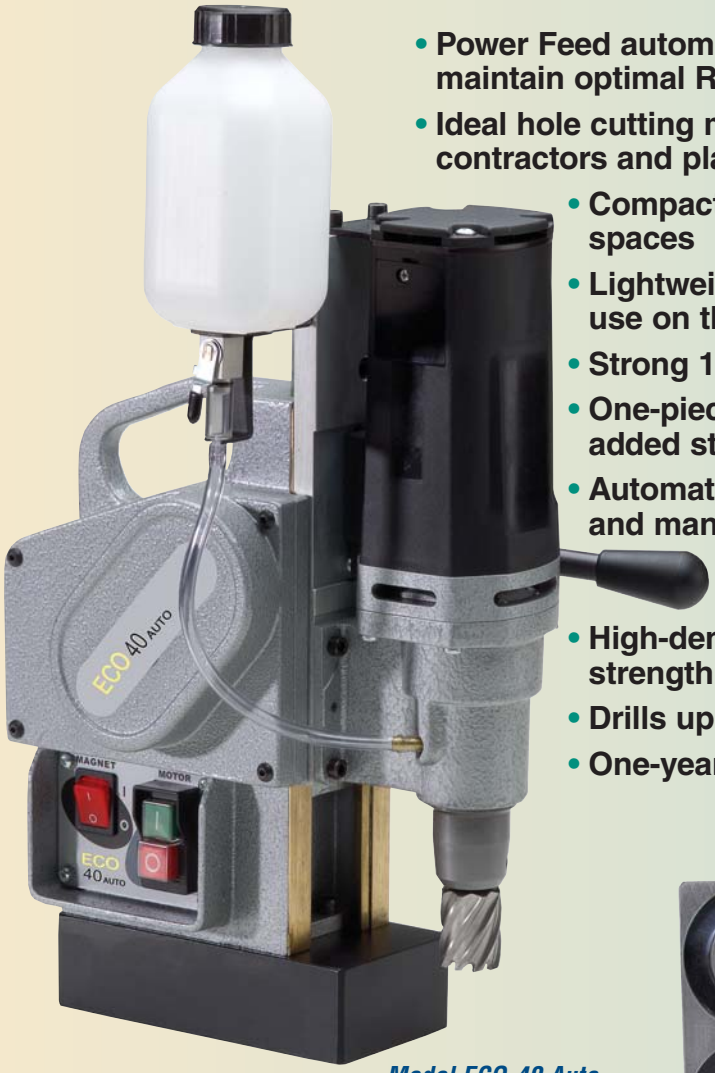
** 220 Volt / 50 Hz also available* *** 3/4" also available, Part No. IBK-32/19*
**** Power Assist Part No. 020.0336*

ECO-40 Auto with Power Feed

EUROBOOR®

Cutter capacity 1 1/2" dia.

Heavy-duty compact drill with automatic feed



Model ECO-40 Auto

- Power Feed automatically controls drill pressure to maintain optimal RPM and feed rate
- Ideal hole cutting machine for steel fabricators, contractors and plant maintenance professionals
- Compact height of 16 1/8" allows drilling in tight spaces
- Lightweight and portable at only 37 1/2 lbs. for use on the job site or in the shop
- Strong 10.5 Amp double-insulated motor
- One-piece motor mount and arbor support for added strength and stability
- Automatic feed mechanism with automatic stop and manual retraction
- High-density dual-coil magnet has holding strength of 2640 lbs.
- Drills up to 1 1/2" dia. holes with Annular Cutters
- One-year warranty

All CS Unitec high-density dual-coil magnets are ground, not cast, and are wound into two circles to increase the surface area and density of the magnetic field.

Standard equipment includes auto lubrication, carrying case, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.

Includes one-year warranty

Model ECO-40 Auto	
Motor Power	10.5 Amp / 110 Volt
Weight	37 1/2 lbs.
Hole Capacity	1 1/2" dia.
Speed	360 RPM
Magnet Base Size	7 1/16" L x 3 1/2" W
Dimensions	16 1/8" H x 12" L x 7 3/4" W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

Cutter capacity up to 1 1/2" dia. stroke: 3"

See pages 18-24 for Annular Cutters and Accessories.

Cutter capacity 2 1/16" dia.

AIRBOR™ AB-4300-2 and AB-4300-2R

Pneumatic power for hazardous environments

ATEX Approved

Motor and magnet are powered completely by compressed air

Model AB-4300-2

AIRBOR™ is inherently safer than electromagnetic drills in hazardous atmospheres and wet environments where electricity requires "hot work permits." *ATEX approved.*

- **Industry's first completely air-operated magnetic drill – *NO ELECTRICITY*!**
  - **Fail-safe permanent magnet is activated "on" and "off" by air pressure; in the event of a loss of air flow, the magnet *will not* disengage**
- **Magnet has a holding strength of 1600 lbs.**
- **Powerful 1.6 HP drill motor**
- **Lightweight and portable**
- **Long drill stroke – up to 10 1/4"**
- **Drills up to 2 1/16" dia. holes with Annular Cutters**
- **Pressurized coolant system lubricates cutter and reduces risk of sparking**

With a geared chuck adapter (Part No. IBK-18) and extra rack (Model No. AB-4300-2R), AIRBOR™ easily converts to a standard drill press with a 7 1/2" stroke.

AB-4300-2R shown with extra rack up (left) and extra rack down (right).

Cutter capacity up to 2 1/16" dia.

Twist drill capacity up to 1/2" dia.

See pages 18-24 for Annular Cutters and Accessories.

Model Comparison

	AB-4300-2R		AB-4300-2	
Drill Stroke				
	w/cutters	w/chuck	w/cutters	w/chuck
	10 1/4"	7 1/2"	4 7/8"	1 3/4"
Height				
	closed	open	closed	open
	13 1/2"	22"	13 1/2"	17 1/2"
Weight				
	lbs.	kg	lbs.	kg
	43	20	38	18

Model AB-4300-2 and AB-4300-2R

Motor Power (Pneumatic)	1.6 HP
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	1/2" dia.
No Load Speed	400 RPM
Air Consumption @ 90 PSI	64 CFM
Magnet Base Size	8 3/4" L x 3 1/2" W
Dimensions	13 1/2" H x 12 1/2" L x 4 3/4" W
Magnetic Force (1" plate)	1600 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included
Stroke Length: 4 7/8"	Order Model AB-4300-2
Stroke Length: 10 1/4"	Order Model AB-4300-2R

HB-4400

Hydraulic for marine and construction – works underwater

Cutter capacity 2 1/16" dia.

Hoses not included

Ratchet manually operates magnet

- Ideal for industrial, construction, marine and mining applications
- Hydraulic motor safe for underwater use
- Drill structural steel and other metals
- Stainless steel construction resists corrosion
- Manually operated permanent magnet with ratchet control has holding strength of 1300 lbs.
- Lightweight, rugged machine for cutting up to 2 1/16" diameter holes with Annular Cutters
- Easily converts to a standard drill press with a chuck for conventional twist drills up to 1/2" dia.
- Includes automatic lubrication

Standard equipment includes safety straps, allen keys and operating instructions.

With a 3/4" chuck (Part No. 602045A), this model easily converts to a standard drill press with a 3" stroke.

Cutter capacity up to 2 1/16" dia. stroke: 3 3/4"

Twist drill capacity up to 1/2" dia. stroke: 3"

See pages 18-24 for Annular Cutters and Accessories.

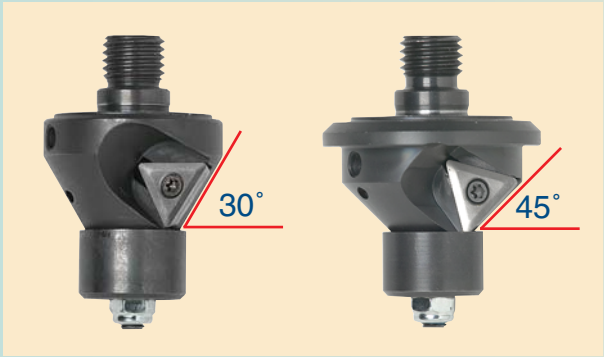
Model HB-4400	
Motor Power (Hydraulic)	1.5 HP
Weight	48 1/2 lbs.
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	1/2" dia.
No Load Speed, Variable	0-630 RPM
Hydraulic Supply	Flow 6.5 GPM @ 2000 PSI
Magnetic Force (1" plate)	1300 lbs.
Automatic Lubrication	Included

Multi-purpose Beveling Machine

Bevel, deburr & chamfer edges of steel plate faster and cleaner than angle grinders

- Bevel 30˚ or 45˚ weld seams on steel, stainless steel, nonferrous metals, brass and plastics
- Deburr and chamfer, straighten edges, internal and external radii and countersink holes from 7/8" dia.
- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Three milling heads – 30˚, 45˚ and radius R2.5 – are available
- Ideal for the following applications:
  - **Moldmaking:** straighten edges, internal and external radii and countersink holes from 7/8" dia.
  - **Boiler and process plant construction:** prepare weld seams on heat exchangers
  - **Mechanical engineering:** deburr machine parts, chamfer edges to protect against paint peeling and create visible edges
  - **Sheet metal:** deburr cut edges
- One-year warranty

One Machine, Three Milling Options



LKF1201 milling head 30˚ *LKF1202 milling head 45˚*

LKF1203 milling head R2.5 radius (only insert shown)

Accessories:

LKS20 - Sintered carbide cutting plate for LKF 1201 and LKF1202
LKS20-R - Sintered carbide cutting plate for LKF1203 (shown above)

Standard equipment includes milling head and 2 inserts, SW22 key, carrying case and user's manual.

Model No.	Beveling Angle	Bevel Width (Max.)*	Motor Power (Amps)	Voltage*	Cutting Speed (SFPM)	Dimensions (L x W x H)	Weight (lbs.)
LKF450-2A	30˚	1/4"	10	110V	3000	12 1/4" x 5 1/2" x 11 5/8"	10 1/2
LKF450-2	45˚	1/4"	10	110V	3000	12 1/4" x 5 1/2" x 11 5/8"	10 1/2

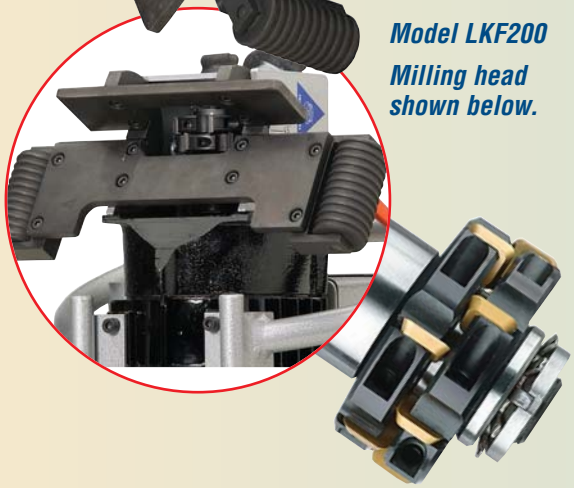
** All units available in 220 Volt / 50Hz † Max. bevel width may require several passes, depending on material hardness

Portable Beveling Machine

Bevel angles from 15˚ to 60˚on plate and pipes

Model LKF200

Milling head shown below.



- Fast and easy preparation of weld seams
- Bevel 15˚ to 60˚ angles on plate or pipe
- High-quality performance allows better weld connections
- Continuously adjustable angle (15˚ to 60˚) and land width up to 5/8"
- Ideal for steel, stainless steel, aluminum and nonferrous metals
- Robust design, single operator control and easy handling
- Includes two milling heads and 12 total indexable inserts for fast metal removal and extended tool life
- Welding angles and weld preparation on pipes/tubes with a minimum OD of 6 1/4" (160mm) with included pipe roller guide
- Ideal for beveling pipe 6 1/4" OD and larger
- Designed for continuous operation
- Smooth roller guides
- One-year warranty

Standard equipment includes two milling heads, each with 6 sintered carbide reversible cutting inserts, tools for assembly, LKF 225 pipe roller guide (shown at left), steel carrying case and user's manual.

Ideal for beveling pipe 6 1/4" OD and larger.

Accessories:

LKS10 - Sintered carbide cutting plates (10 per pack)

Model No.	Adjustable Beveling Angle	Bevel Width (Max.)	Motor Power (Amps)	Voltage*	Rotation Speed (SFPM)	Dimensions (L xH)	Weight (lbs.)
LKF200	15˚ - 60˚	5/8"†	14	110V	1800	16 1/2" x 13"	42

** Available in 220 Volt / 50Hz † Max. bevel width may require several passes, depending on material hardness*

Unibroach® Annular Cutters

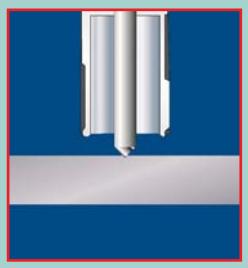
Faster and more accurate than twist drilling

Unibroach® cutters are made of hardened, high-speed tool steel and precision ground with up to 16 teeth for fast drilling

CS Unitec's Unibroach® Annular Cutters drill a burr-free finished hole by cutting only the material around the periphery of the hole. This forms a solid slug which automatically pops out.

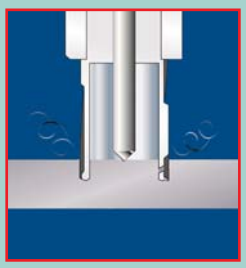
- **Less time and energy are consumed per hole**
- **Faster feed rates are achieved with more cutting teeth and less tool wear**
- **Lighter, less powerful drilling equipment can be used**
- **Able to drill holes which are difficult or impossible to do accurately with conventional twist drill tooling – with no predrilling or stepdrilling required**

Step 1



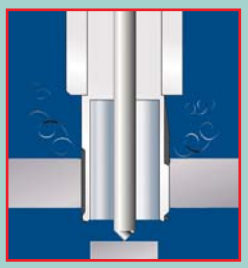
Center pilot pin accurately centers cutter over area to be drilled.

Step 2



During drilling, the pilot pin retracts and allows internal coolant to reach the cutting teeth.

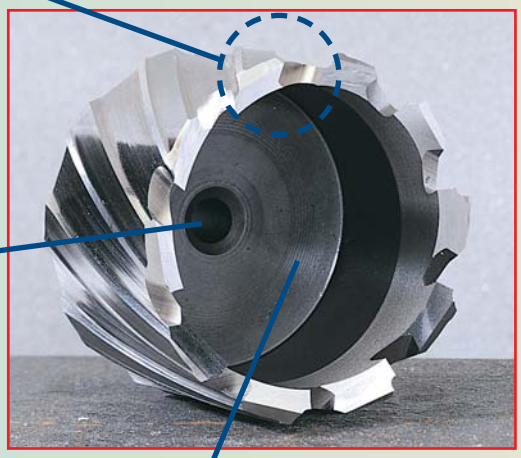
Step 3



When hole is complete, the slug is automatically ejected from the cutter.

Double-action tooth geometry cuts, splits and ejects chips more efficiently,

- *increasing cutting speed*
- *reducing tooth load*
- *minimizing tool wear*
- *lengthening cutter life*



Center hole for pilot pin accurately aligns the cutter, allows for internal lubrication and removes the slug.

Engineered with a tapered inner wall for smooth, easy slug ejection.

Perfect drilling to close tolerances without runout. The result: a burr-free finished hole.

Unibroach® Annular Cutters

EUROBOOR®

Less Friction = Less Heat = More Holes!

Increase tool life and achieve faster feed rates

ARMOR-PLATED Unibroach™ Cutters – TiAlN

ARMOR-PLATED Unibroach™ Cutters, at 90Rc hardness, are the state-of-the-art in hole cutting technology. They multiply service life, reduce cost and increase productivity.

- 3 to 4 times longer tool life with TiAlN coating
- Drill with less friction and more power
- Withstands higher working temperatures – up to 1480˚F (800˚C)
- Dry drilling or lubricating with water simplifies working conditions and cleanup*
- Prevents cold weld – metal chips do not adhere to the cutter
- Ideal for structural steel and hard metal
- 3/4" dia. shank (1 1/4" dia. shank available)

** After the TiAlN coating is worn, lubricate with cutting oil*

ARMOR-PLATED Unibroach™ cutters are available in the following sizes:

1" drill depth – ø 7/16" to ø 5"
2" drill depth – ø 7/16" to ø 5"
3" drill depth – ø 3/4" to ø 5"

- *3/4" shank is standard for cutters up to 3" dia.*
- *Metric cutters available on request*
- *See our price list for part numbers*

Unibroach® High-Speed Steel (HSS) Cutters

CNC-ground flutes run the length of the cutter for efficient chip clearance. This increases drilling productivity and decreases cutter breakage.

Annular Cutters are the standard hole-making drills in the industry. Ideal for heavy-duty use on-site or in the shop, our HSS Unibroach™ cutters are available in the following sizes:

1" drill depth – ø 7/16" to ø 5"
2" drill depth – ø 7/16" to ø 5"
3" drill depth – ø 3/4" to ø 5"

- *Metric cutters available on request*
- *See our price list for part numbers*

3/4" dia. shank. Also available with 1 1/4" dia. shank.

** HSS Cutters must be used with lubricant.*
See page 21 for CS Unitec lubricants and cutting oil.

- CNC precision ground for fast penetration, accuracy and long life
- Drill holes 3 times faster than twist drills
- Produce reamed-quality burr-free holes and solid slugs
- Reduce machine size and weight
- Cutting edges are resharpenable
- Eliminate time-consuming, costly pilot holes and step drilling

***Unibroach® Stack Cutters** are available in diameters from 7/16" to 1 1/8" in 1", 2" and 3" depths. Drill multiple layers of steel without stopping to remove the center slug. Please contact us or consult our price list for more information.*

Unibroach® Annular Cutters

High-speed drilling – on the job site or in the shop

Unibroach® Tungsten Carbide-tipped (TCT) Cutters

- Use high-speed RPM for best results and faster holemaking
- Ideal for drilling steel with rust or paint
- Will outlast High-speed Steel cutters
- Leaves a burr-free finished hole
- Available in all sizes (fractional and metric)
- 3/4" or 1 1/4" shank

Available in the following sizes:
1" drill depth – ø 5/8" to ø 2"
2" drill depth – ø 11/16" to ø 5"
3" drill depth – ø 13/16" to ø 2"

• Metric cutters available on request
• See our price list for part numbers

Unibroach® Cobalt Cutters

- Unibroach® Cobalt Cutters are made with 5% cobalt to increase resistance to wear
- Excellent results when drilling high-tensile steel and difficult-to-machine materials
- Available with TiAlN coating upon request
- Available for hole sizes up to 5" dia.

• 3/4" shank is standard for cutters up to 3" dia. • Metric cutters available on request • See our price list for part numbers

Unibroach® Large-diameter Hole Cutting

Drill perfect holes up to 5" diameter without runout

- Standard with 3/4" or 1 1/4" shank diameters
- More cutting teeth to distribute the load evenly
- Increase tool life and achieve faster feed rates
- Use on milling machines, drill presses, CNC and other equipment
- A solid slug has a higher value for scrap metal
- Available in HSS, Cobalt, TCT and ARMOR-PLATED Unibroach™

Unibroach® Cutter Kits

Kits include one each: 9/16", 11/16", 13/16", 15/16", 1 1/16" (for cutter depth of 1" or 2"), pilot pin and plastic case

Lubricants

Coolant extends the life of cutting tools!

ProLube™ Ideal for cutting steel, stainless steel and hard metals

Your cutting tools will work cooler, longer and more efficiently with ProLube™ Lubricants from CS Unitec.

- Prolong tool life by reducing friction and wear
- Unique composition provides excellent adhesion to cutting tools for maximum lubrication
- Corrosion inhibitor
- Non-toxic

ProLube Liquid
Water soluble 16:1
CS 7010-504
1 gal. bottle

ProLube Paste
CS 7030-712
12 oz. tub

Cutting Oil

[Part No. IBO.20Q (quart); IBO.20G (gallon)]

- High-alloy cutting oil for heavy removal of metal, including stainless steel
- Chlorine-free (MSDS on bottle)
- Not necessary to dilute with water

Upgrade your drill's cooling system: see page 23 for arbors with automatic cooling.

Power Assist

The Power Assist is a standard capstan, designed with delayed torque transfer. This decreases the load on both cutter and drilling machine, allowing the machine to maintain max. RPM under full load

- Reduces drilling time
- Prevents cutter breakage
- Extends lifespan of cutter/ drill bit
- Extends life of machine

Power Assist Capstan

030E.0048 – Included with ECO-30

020.0330 – Power Assist for ECO-32 and ECO-50 machines

020.0336 – Power Assist for ECO-80, ECO-100 and ECO-130 machines

020.0063 – Power Assist with wrench mechanism for ECO-32 and ECO-50 machines

020.0064 – Power Assist with wrench mechanism for ECO-80, ECO-100 and ECO-130 machines

Power Assist Wrench Mechanism

Accessories

Pilot Pins for Cutters

- Milled channel efficiently supplies internal lubrication to cutting teeth
- Available for cutter diameters ranging from 7/16" to 5" and 1", 2", 3" and 4" depth of cut
- See price list for part numbers

Drill Chucks for Straight Shank Twist Drills

- Two capacities: 1/2" and 3/4"
- Four chucks and adapters to fit all magnetic drills:

A) **IBK-17** – 1/2" chuck for ECO-32 and ECO-32T

B) **IBK-18** – 1/2" chuck with 3/4" shank for AIRBOR™ and HB-4400 (fits all drills with 3/4" arbor bore)

C) **IBK-21** – 3/4" chuck with MT3 shank for ECO-80AK and ECO-100/3AK

D) **IBK-22** – 3/4" chuck with MT2 shank for ECO-50 and ECO-50T

Tapping Tools, Tap Collets and Tapping Chucks

- Manufactured from high-quality HSS to ASA Standard (or DIN 376 for metric)
- Ideal for CS Unitec's portable drilling and tapping machines and other drills

Tap collets fit magnetic drills with 3/4" arbor bore. They are available for taps 1/4" through 3/4". They hold standard USA taps conforming to ASA.

Model No. GSW.222 quick-change tapping chuck with MT2 connection, complete with flexible collet to tap 5/16" to 5/8". For use with ECO-50T magnetic drill.

Model No. GSW.830 tapping chuck utilizes two variable clamp collets to tap 3/8" to 1 1/8". It is the least expensive system if you will tap more than 4 sizes. GSW.830 has an MT3 connection. For use with ECO-100 magnetic drill.

Variable clamp collets for use in tap chuck No. GSW.830
Model No. VSP.160 variable clamp collet fits shanks 3/8" – 5/8".
Model No. VSP.230 variable clamp collet fits shanks 5/8" – 7/8".

Accessories

Arbors for Annular Cutters

Manual Cooling

Automatic Cooling

Extended Length

- Can be used on any magnetic drill stand, drill press or shop equipment with a Morse Taper intake of No. 2, No. 3 or No. 4
- Available for Annular Cutter shank sizes of 3/4" or 1 1/4" Weldon
- Available for automatic internal cooling or manual cooling

MC.2 – Morse Taper No. 2, 3/4" arbor bore, manual cooling

MC.3 – Morse Taper No. 3, 3/4" arbor bore, manual cooling

MC.4 – Morse Taper No. 4, 3/4" arbor bore, manual cooling

IMC.20 – Morse Taper No. 2, 3/4" arbor bore, automatic cooling

IMC.30 – Morse Taper No. 3, 3/4" arbor bore, automatic cooling

IMC.30/32 – Morse Taper No. 3, 1 1/4" arbor bore, automatic cooling

Keyless Arbor with Automatic Cooling

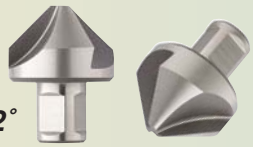
Keyless cutter arbors allow fast, no-tools changeover for 3/4" dia. shank annular cutters.

IMC.2Q – Morse Taper No. 2

IMC.3Q – Morse Taper No. 3

82° and 90° Countersinks

- Manufactured of HSS with 5% cobalt
- 3/4" Weldon shank



Countersink hole sizes:

***SCE 20** from 3/8" to 1 1/2" / 82°*
***SCE 30** from 5/8" to 2 " / 82°*
***SCE 40** from 3/8" to 1 1/2" / 90°*
***SCE 50** from 5/8" to 2 1/8" / 90°*

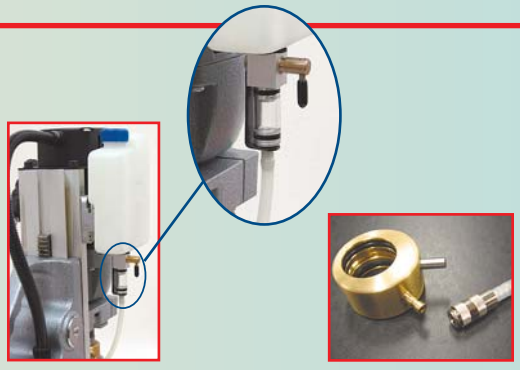
Twist Drills with 3/4" Weldon Shank

- Manufactured of high-speed steel
- Same 3/4" connection as Annular Cutters
- Bit diameters from 1/4" to 3/8"

Cooling System

The cooling system on all our drills has been upgraded for easier use. The coolant reservoir is quickly and easily attached to the magnetic drill via a new magnet system. The coolant flow is measurable and easily monitored through a clear cylinder.

The hose connecting the reservoir to the spindle has also been upgraded. It is now equipped with a wear-resistant mechanical locking system that securely fastens the hose to the arbor.



Accessories

Extensions for Annular Cutters

Extra-long holders extend stroke of drills

- Extend cutter reach up to 12"
- Available for magnetic drills with 3/4" arbor bore or MT3
- Also available with 3 flats for straight shank drill chucks and R8 shanks for drill presses

3/4" Weldon Shank (2 Flats)

6" length (p/n 7-9-906)
12" length (p/n 7-9-912)

- Drill difficult-to-reach areas
- Extend cutter reach over the side or through an existing hole*

3 Flats

* Hole diameter must be larger than 1 5/16" to accommodate width of extension

R8

3 Flats for Geared Chucks x 3/4" arbor

MT2 or MT3 x 3/4" arbor

Pipe Clamp Saddle System

Ensures safe, secure drilling of pipes and tubular material

Ideal for a wide variety of pneumatic, hydraulic or electric drills

- Quick clamping feature for fast setup on pipes up to 20" dia. and larger
- For use on steel, stainless steel and other materials
- Chain tensioner secures saddle to pipe in any position, while four independent steel feet automatically adjust to pipe contour
- Larger sizes available with optional extension chain*

	Model PAK-100 For models ECO-30/3P, ECO-32, ECO-32T and MDM-40	Model PAK-200 For models AB-4300-2, ECO-50, ECO-80, ECO-100/3, ECO-40 AUTO and HB-4400
Pipe OD	3 1/4" to 10" dia.	6" to 20" dia.
Maximum Magnet Dimensions	6 5/8" L x 3 5/16" W	9" L x 4 3/8" W
Weight	14 lbs.	23 lbs.

* For larger pipe sizes, order 39" extension chain, Part No. PAK-CHAIN

Electric Drills and Drive Units

High-torque, multi-geared and variable-speed motors

Model EHB 16/1.4 S

Model EHB 16/2.4 S
Model EHB 16/2.4 R/L
Model EHB 16/2.4 S/RL

Model EHB 20/2.4

Model EHB 32/4.2

Heavy-duty Drills for Industrial and Construction Applications:

- High-torque output
- Variable-speed, two- and four-geared drills for optimum speed selection
- Reversible motors and electronic torque control on selected models
- Ideal for special applications including valve turning, tube rolling and other jobs
- Safety slip clutch on $1^1/_4$" capacities to protect operator and tool
- Drilling capacities up to $1^1/_4$" in steel
- Special OEM motors available on request
- One-year warranty

Model No.	Motor Power (Amps)	Voltage*	Load Speed (RPM)	Drilling Capacity in Steel	Torque Output (ft./lbs.)	Reversible	Chuck/Arbor	Weight (lbs.)
EHB 16/1.4 S	7.3	110V	0-500	$^5/_8$"	12	NO	$^5/_8$" Keyless	6.8
EHB 16/2.4 S	10	110V	0-430/0-760	$^5/_8$"	19	NO	$^5/_8$" Geared	7
EHB 16/2.4 R/L	10	110V	430/760	$^5/_8$"	19	YES	$^5/_8$" Geared	7
EHB 16/2.4 S/RL	10	110V	0-430/0-760	$^5/_8$"	19	YES	$^5/_8$" Geared	7
EAW 16/2 R/L	9	110V	900/1600	N/A	8	YES	$^5/_8$" X 16 UN	7
EHB 20/2.4	10.5	110V	250/450	$^3/_4$"	32	NO	MT2	9.2
EHB 32/4.2	15.5	110V	110/175/245/385	$1^1/_4$"	112	NO	MT3	15.2

** All units available in 220 Volt / 50Hz* *Special Motors available upon request.*

Slow-speed Electric Drills and Drive Units

Two-geared, variable-speed reversible motors

Model ETE 32/2.3 R/RL (shown with optional Square Drive adapter)

- High-torque, two-geared and variable-speed reversible motors
- Ideal for drilling, reaming and tapping steel
- Driving applications include mills, spindles, bar boring, pipe beveling and valve turning
- Perfect for tube rolling and expanding for fire tube and water tube boilers
- Mechanical safety clutch prevents operator injury or damage to the tool
- Morse Taper #3 arbor
- One-year warranty

Model EHB 32/2.2 R/RL
Model ETE 32/2.3 R/RL

Up to 1 1/4" twist drill capacity

*1/2" and 3/4" Square Drive accessories allow motor compatibility for various drive applications.**

Model No.	Motor Power (Amps)	Voltage**	Load Speed (RPM)	Drilling Cap. in Steel	Tube Rolling (max.)	Reversible	Torque Output (ft./lbs.)	Torque Control	Arbor	Weight (lbs.)
EHB 32/2.2 R/RL	16.3	110V	60-140 / 200-470	1 1/4"	2"	YES	92 max.	YES	MT3	14
ETE 32/2.3 R/RL	16.3	110V	30-75 / 90-230	N/A	3" ***	YES	174 max.	NO	MT3	15

** All units available in 220 Volt / 50Hz
*** With Expander (Up to 2 1/2" with Bead Roller)

* 1/2" Square Drive with MT3 – Part No. 830-1230-050
3/4" Square Drive with MT3 – Part No. 830-1230-075

Pneumatic Drills and Drive Units

ATEX

High-torque reversible drilling and tapping machines

- High-torque reversible drilling, tapping and threading machines
- Ideal for drilling, reaming, tube rolling, tube expanding and tapping
- Use for special applications including mills, spindles, slides, controllers, pipe tapping, valve turning and more
- Drill chucks and Morse Taper arbors
- Hammer drills for drilling concrete with up to 2200 blows per minute
- Special OEM air motors available on request
- One-year warranty

Morse Taper Drills w/ Feed Spindle

Model
2 2089 0030
with reverse and
safety twist throttle

D-handle Drills

Model
2 1310 0010

See page 29
for Rotary
Hammer Drills

Pneumatic Hammer Drills

Model 2 1266 0010

Pneumatic Pistol Drills

Model
2 1261 0010

Model No.	Motor Power (HP)	Load Speed (RPM)	Reversible	Chuck/ Arbor	Drilling Cap. in Steel	Tube Rolling Cap.	Torque Output (ft./lbs)	CFM at 90 PSI	Length	Feed Length	Weight (lbs.)
Pistol Drills											
2 1261 0010	0.7	90-850	NO	1/2" Chuck	1/2"	N/A	7 max.	21	9 3/4"	N/A	4.6
Hammer Drills (for concrete and underwater applications)											
2 1266 0010	0.75	950	NO	1/2" Chuck	1/2"	N/A	7 max.	21	12"	N/A	6.7
D-handle Drills											
2 1310 0010	0.8	650	NO	1/2" Chuck	1/2"	N/A	8 max.	24	12 1/2"	N/A	12
2 1311 0010	0.8	650	NO	MT1	5/8"	N/A	8 max.	24	11"	N/A	12
Morse Taper Drills w/ Feed Spindle											
2 2089*	1.7	250	YES	MT3	1 1/4"	1"	36 max.	24	26 1/2"	1 5/8"	28
2 2506*	2.5	220	YES	MT3	1 1/4"	2"	63 max.	70	26 1/2"	2 1/2"	32
2 2502*	2.5	80	YES	MT4	2"	2 1/2"	173 max.	70	26 1/2"	2 1/2"	37

** The last four digits of the Model No. identify the type of throttle.*
Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.

Pneumatic and Hydraulic Corner Drills and Drives

High-torque drilling, reaming and driving units

Model 2 1801 0030

ATEX

Corner Drills and Bridge Reamers

- Small side-to-side distance for working in tight spaces
- Self-closing roll throttle
- Built-in oiler for motor
- Ideal for bridge reaming and drilling applications
- One-year warranty
- Visit www.csunitec.com for dimensions

Slow-speed, High-torque Straight Drive Units

Model 2 2087 0010 with reverse and lever throttle

- Ideal for heavy-duty reaming, tube expanding and tapping
- Perfect for special driving applications, including pipe tapping and valve turning

Square Drive Accessories

2 2089 7020 – 7/8" Male Square Drive to 3/4" Male Square Drive
2 2089 7070 – 7/8" Male Square Drive to 1" Male Square Drive

Pneumatic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Cap.	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	CFM at 90 PSI	Length	Weight (lbs.)
Nonreversible										
2 1602 0030	#1	5/8"	1/2"	N/A	7	500	0.7	21	12.5"	7
2 1701 0030	#2	7/8"	5/8"	N/A	35	270	1.8	49	20.9"	19
2 1801 0030	#3	1 1/4"	1"	N/A	53	260	2.6	63	22.5"	25
Reversible										
2 2104 0030	#4	2 1/8"	2"	2"	86	180	3.0	71	23.8"	37

Model No. 2 1602 0030 has a 3/8" NPT air inlet. 1/2" (13mm) hose is recommended. All other models have 3/4" NPT air inlet. A 1/2" (13mm) hose is recommended for model 2 1701 0030. A 5/8" (15mm) hose is recommended for models 2 1801 0030 and 2 2104 0030.

Hydraulic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Cap.	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	Oil Flow/ PSI	Length	Weight (lbs.)
2 1806 0010	#3	1 1/4"	1"	N/A	60	220	3.8	4 GPM @2000	21"	25

Pneumatic Drive Unit Model No.	Square Drive ID	Torque Output (ft./lbs.)	Load Speed (RPM)	Reversible	Tube Rolling Cap.	Tapping Cap.	Motor Power (HP)	CFM at 90 PSI	Height x Length	Weight (lbs.)
2 2081*	13/16"	413	20	YES	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2087*†	7/8"	413	20	YES	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2088*†	7/8"	138	60	YES	2"	3/4"	1.35	53	10.9" x 26.5"	29

** The last four digits of the Model No. identify the type of throttle. † Square drive accessories available (see above). Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.*

Pneumatic and Hydraulic Rotary Hammer Drills

Powerful percussion drilling for concrete and masonry

- Holes cost less with SDS drill bits
- Safety clutch protects against overloading and jamming
- Hammer drill holes in concrete, brick and masonry
- Rotary drilling mode for straight drilling of steel and wood

ATEX

Air Model 2 2404 0010
SDS Plus up to 1" dia.

SDS Max – Modes of Operation

2" bit capacity for drilling concrete and masonry

Hammer with Rotation
Ideal for concrete drilling

Rotation Only
Ideal for drilling wood and steel

Air
Model 2 2414 0010
SDS Max

Hydraulic Model
2 2410 0010
SDS Max

Second handle position

SAE #8 port for hydraulic hose connection

SDS Plus – Hammer and Drill

1" bit capacity for drilling concrete and masonry

Drill concrete anchor holes, thru holes, piping and mechanical openings and other construction and repair work. Switches to rotary drilling mode for steel and wood.

Hydraulic Model
2 2406 0010
SDS Plus

SAE #8 oil port

SDS Drill Bits and Chisels

Small Masonry Bits
SDS Plus up to 1" dia.

Large Masonry Bits
SDS Max up to 2" dia.

Auger Drill Bit
for wood

Chisel
for demolition

Pneumatic Hammer Drill Model No.	Blows/ Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 90 PSI	Air Consumption at 90 PSI	Tool System	Dimensions (inches)	Weight (lbs.)
2 2404 0010	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.7 HP	21 CFM	SDS Plus	16 x 8 1/2 x 4	11
2 2404 0030*	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.7 HP	21 CFM	SDS Plus	16 x 8 1/2 x 4	11
2 2414 0010	0-2500	0-250	2" dia.	6" dia.	1 1/4" dia.	1.6 HP	53 CFM	SDS Max	19 1/2 x 9.8 x 4 1/2	26

** Underwater model – Optional underwater air tool line conditioner to displace moisture, Part No. MS 9105. See page 31.*

Hydraulic Hammer Drill Model No.	Blows/ Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 2000 PSI	Flow Range at 1450 PSI (GPM)	Tool System	Dimensions (inches)	Weight (lbs.)
2 2406 0010	0-3400	0-625	1" dia.	3" dia.	3/4" dia.	0.8 HP	5.8-13.2	SDS Plus	18 x 10 1/4 x 4	15
2 2410 0010	0-2500	0-250	2" dia.	6" dia.	1 1/4" dia.	1.8 HP	2.6-13.2	SDS Max	19 1/2 x 11 1/8 x 7 1/2	25

Hydraulic Hammer Drills operate at hydraulic pressures of 1,450 - 2,000 PSI

Pneumatic and Hydraulic Nut Runners

ATEX

Ideal for turning valves, tightening, tapping, reaming, pipe beveling, expanding and more

- Worm gear drive provides high torque – up to 554 ft.-lbs.
- Lightweight and reversible
- Compact angle head allows access to confined spaces
- Both Pneumatic and Hydraulic models available
- One-year warranty

Model
6 1015 0075

*Model numbers pictured above (listed from top to bottom): **6 1015 0075** (with male drive), **6 1015 0010** (female), **6 1014 0075** (with male drive)*

Available with Male or Female Square Drives, in a variety of sizes

Male Sq. Drive Head
1/2" or 3/4"

Female Sq. Drive Head
3/4" or 7/8"
(7/8" pneumatic only)

Square Drive Accessory

6 1015 7030
3/4" Male Square Drive (included with model numbers 6 1014 0075, 6 1015 0075 and 6 1016 0075)

6 1015 7020
1/2" Male Square Drive (included with model numbers 6 1014 0099, 6 1015 0099 and 6 1016 0099)

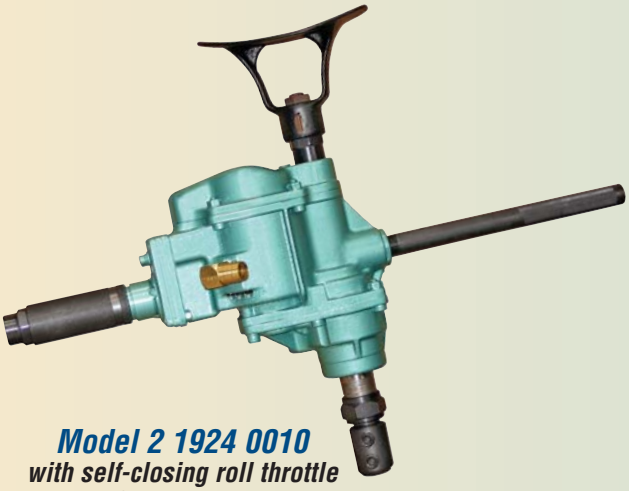
Pneumatic Nut Runner Model No.	Square Drive F=Female M=Male	Stall Torque at 90 PSI (ft-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	CFM at 90 PSI	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Air Connection (inches)	Hose ID (inches)
6 1014 0010	3/4" F	100	180	100	0.9	42	1	16	10	NPT 3/8	1/2
6 1014 0075	3/4" M	100	180	100	0.9	42	1	16	11	NPT 3/8	1/2
6 1014 0099	1/2" M	100	180	100	0.9	42	1	16	11	NPT 3/8	1/2
6 1015 0010	3/4" F	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1015 0075	3/4" M	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1015 0099	1/2" M	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1016 0010	3/4" F	141	120	67	0.9	42	1	21	10	NPT 3/8	1/2
6 1016 0075	3/4" M	141	120	67	0.9	42	1	21	11	NPT 3/8	1/2
6 1016 0099	1/2" M	141	120	67	0.9	42	1	21	11	NPT 3/8	1/2
6 1017 0010	3/4" F	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1017 0075	3/4" M	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1017 0099	1/2" M	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1021 0010	7/8" F	423	44	22	0.9	45	1	21	11	NPT 3/8	1/2

Hydraulic Nut Runner Model No.	Square Drive F=Female M=Male	Stall Torque at 90 PSI (ft-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	Oil Flow (GPM)	Oil Pressure (GPM)	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Connection Quick Couplers
3 6242 0010	3/4" F	554	44	22	1.6	4 - 13	1000	1	20	22	1/2" FF
3 6242 0075	3/4" M	554	44	22	1.6	4 - 13	1000	1	20	22	1/2" FF
3 6242 0099	1/2" M	554	44	22	1.6	4 - 13	1000	1	20	22	1/2" FF

Woodboring Air Drills, Reversible

Heavy-duty power for underwater drilling and other wood boring applications

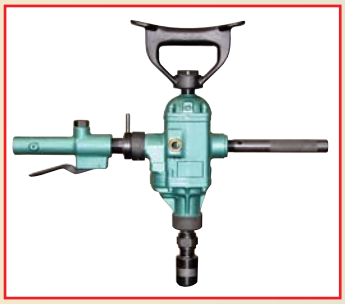
REVERSIBLE



Model 2 1924 0010
with self-closing roll throttle
Up to 2" for boring wood

- Ideal for drilling wood in marine timbers, underwater use and railroad repair work
- Thrust bearing support for long life and efficient operation
- Lever throttle and durable spur gearing
- Breast plate and dead handle included
- Includes threaded exhaust port
- Use underwater with Air Tool Line Conditioner (shown below)

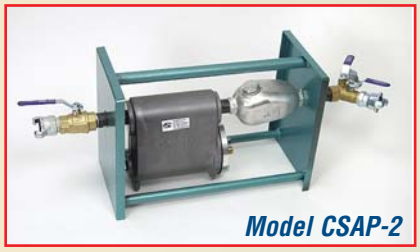
Accessories and woodboring drill bits from 1/2" dia. to 1 1/8" dia. in lengths from 12" to 36"



Model 2 1903 0010
with lever throttle
Up to 1" for boring wood

	Model 2 1903 0010	Model 2 1924 0010
Capacity in wood	1" Diameter	2" Diameter
Reversible	Yes	Yes
Power	2 HP	3 HP
Chuck Style	1/2" Woodboring	1/2" Woodboring
Spindle	Stub Taper	#2 Morse Taper
Free Speed	750 RPM	700 RPM
Recommended Hose Size	1/2"	1/2"
Overall Height	17 1/2"	18 1/2"
Weight	14 1/2 lbs.	24 3/4 lbs.
Air Inlet Thread	1/2" ID	1/2" ID
Air Exhaust Thread	1/2" NPT	1/2" NPT
Air Consumption at 90 PSI	39 CFM	50 CFM

AirPac Extends life of pneumatic power tools



Model CSAP-2

- Removes moisture and dirt from air lines; a float valve automatically ejects water and dirt
- Includes automatic oiler; prevents tools from freezing in cold environments
- Eliminates air motor downtime caused by water and dirt
- Connections for two tools; max. air flow 185 CFM

Air Tool Line Conditioner

Underwater air tool conditioner for marine applications. Displaces moisture and inhibits rust/corrosion of air motors.

MS 9105 – 1 quart/liter

Also available from UNITEC:

CS Unitec, Inc. specializes in electric, pneumatic and hydraulic power tools for construction and industry.

Innovation and high quality are synonymous with CS Unitec's power tools. In 1991, the company invented the first pneumatic portable band saw. CS Unitec has added to its list of industry firsts with the widest range of portable magnetic drills and hand-held concrete core drills. The line also includes electric, pneumatic and hydraulic portable band saws, reciprocating saws, hack saws, nut runners, rotary hammer drills, rolling motors, metal finishing tools, portable mixers, dust extraction tools and vacuum systems.

... the power of innovation!®

For more information, please visit our Web site at www.csunitec.com.

View product demonstrations at www.csunitec.com.

Electric, Pneumatic and Hydraulic Tools

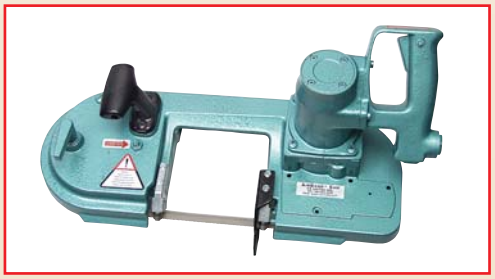
Surface finishers for sanding and polishing steel

Pipe sander for eliminating weld seams and polishing stainless steel

Hand-held and rig-mounted core drills for concrete

Air concrete saws for heavy-duty indoor/outdoor use

Portable hacksaws for pipe cutting up to 24"



Pneumatic, electric and hydraulic portable band saws cut up to 7" OD

UNITEC

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